

ABSTRACT OF THE DISCLOSURE

5 The present invention relates to a method of updating the clock bias  
between the common clock of the satellites of a radio navigation satellite  
system and the clock of a radio station of an asynchronous cellular  
radiotelephone system including a mobile device including a radio  
navigation satellite system receiver for receiving satellite data supplied by at  
least four satellites and an assistance server for improving the acquisition of  
10 satellite data by the mobile device. The method includes the steps of the  
mobile device receiving the satellite data, the mobile device calculating  
pseudodistances between itself and the satellites, encapsulating the  
pseudodistances with the time at which the pseudodistances are  
calculated, transmitting the pseudodistances and the time at which the  
15 pseudodistances are calculated in the form of a radio signal from the  
mobile device to the assistance server via the radio station, and the  
assistance server determining the position of the mobile device and  
estimating the clock bias between the common clock of the satellites and  
the clock of the radio station using the pseudodistances and the time at  
20 which the pseudodistances are calculated.